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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/847,867	05/02/2001	Boguslaw A. Swedek	5252/451001	5820
32588 75	90 02/12/2004	EXAMINER		INER
APPLIED MATERIALS, INC.			GRANT, ALVIN J	
2881 SCOTT BLVD. M/S 2061 SANTA CLARA, CA 95050			ART UNIT	PAPER NUMBER
	,		3723	15
			DATE MAIL ED: 02/12/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

		)H				
	Application N .	Applicant(s)				
, •	09/847,867	SWEDEK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alvin J Grant	3723				
The MAILING DATE of this c mmunication appears n the cover sheet with the c rrespondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS from cause the application to become ABANDO	e timely filed  days will be considered timely.  rom the mailing date of this communication.  NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 De	Responsive to communication(s) filed on 20 December 2003.					
· <u> </u>						
	S) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-5 and 16-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-5 and 17-22</u> is/are allowed.						
6)⊠ Claim(s) <u>16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Offi	ce Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	" <b>"</b>					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informa	al Patent Application (PTO-152)				
Paper No(s)/Mail Date 7.	6)  Other:					

Application/Control Number: 09/847,867

Art Unit: 3723

### **DETAILED ACTION**

## Response to Arguments

Applicant's arguments, see page 7, lines 6-8, filed 20 December 2003, with respect to claims 1-5, 16 and 17 have been fully considered and are persuasive. The Final Rejection of claims 1-5, 16 and 17 has been withdrawn, and a detailed examination follows.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 16 is rejected under 35 U.S.C. 102(b) as being anticipated by Li '672.

Li discloses a chemical mechanical polishing apparatus, comprising: a polishing surface; a carrier head to hold a substrate having a conductive layer disposed thereon in contact with the polishing surface; a motor to create relative motion between the substrate and the polishing surface; an eddy current monitoring system including an inductor and a current source to drive the inductor to generate an alternating magnetic field that induces eddy currents in the conductive layer; a sensor to measure a strength of the magnetic field and a phase difference between the magnetic field and the drive signal; and a computer configured to calculate the correction factor based on the strength of the magnetic field and calculate a thickness of the conductive layer from the phase difference and the correction factor (Fig. 4; and column 4, line 18 –column 6, line 41).

## Allowable Subject Matter

Claims 1-5 and 17 are allowed.

#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin J Grant whose telephone number is (703) 305-3315. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Joseph J Hail can be reached on (703) 308-2687. The fax phone number for the organization where this
application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ajg

Joseph J. Hail, III
Supervisory Patent Examiner
Technology Center 3700